

What is claimed is:

1. A color filter array having a yellow filter layer on a substrate

wherein the yellow filter layer comprises

5 a pyridone azo dye having its absorption maximum at a wavelength of 400 to 500 nm; and has a transmittance at a wavelength of 450 nm of 5% or less, that at 535 nm of 80% or more and that at 650 nm of 90% or more.

10 2. A process for producing a color filter array having a yellow filter layer on a substrate

which comprises the step of patterning a photosensitive resin composition comprising

15 a pyridone azo dye having its absorption maximum at a wavelength of 400 to 500 nm

to form the yellow filter layer having a transmittance at a wavelength of 450 nm of 5% or less, that at 535 nm of 80% or more and that at 650 nm of 90% or more.

3. A photosensitive resin composition comprising

20 a pyridone azo dye having its absorption maximum at a wavelength of 400 to 500 nm.

4. The photosensitive resin composition according to claim 3 which further comprises a photoactive compound, and an alkali-soluble resin, and

25 wherein the amounts of the dyes, the photoactive compound, and the alkali-soluble resin are 10 to 50 parts by weight, 10 to 50 parts by weight, and 3 to 50 parts by weight, per a total of 100 parts by weight of the dyes, photoactive

compound, and alkali-soluble resin, respectively.

5. The photosensitive resin composition according to claim 3 which further comprises a curing agent, and wherein the amount of the curing agent is not less than 10 parts by weight and not more than 35 parts by weight per a total of 100 parts by weight of the dyes, the photoactive compound, and the alkali-soluble resin.

6. The photosensitive resin composition according to claim 3 which further comprises photo acid generator, curing agent, and an alkali-soluble resin, and wherein the amounts of the dyes, the photo acid generator, the curing agent, and the alkali-soluble resin are about 15 to 40 parts by weight, 0.3 to 5 parts by weight, 10 to 25 parts by weight, and 20 to 75 parts by weight, per a total of 100 parts by weight of the dyes, photoreactive acid generator, curing agent, and alkali-soluble resin, respectively.